# Bulletin, Southern California Academy of Sciences VOLUME 41 - - - - - PART 3, 1942

# CONTRIBUTIONS FROM THE LOS ANGELES MUSEUM - CHANNEL ISLANDS BIOLOGICAL SURVEY

# No. 27. FLORA OF THE CHANNEL ISLANDS NATIONAL MONUMENT

By M. B. Dunkle

The two islands of Santa Barbara and Anacapa, which form the Channel Islands National Monument, have been studied less than the larger islands from the botanical standpoint and as less material has been published, it seems advisable to prepare this list. The writer has made many trips to Santa Barbara Island but has spent only one week on Anacapa. Richard M. Bond and E. Lowell Sumner have recently collected extensively on both Santa Barbara and Anacapa Islands and Mr. Bond has very generously supplied the writer with complete lists of their collecting as well as various notes on the ecology and taxonomy of the island plants. Lists of Anacapa plants by T. S. Brandegee and Lorenzo G. Gates have been included in Miss Eastwood's recent list of Island plants<sup>1</sup>. The collections of Ralph Hoffman and those of Bond and Sumner have been made available for study through the courtesy of the Santa Barbara Museum of Natural History. Dr. P. A. Munz has been of invaluable assistance in the matter of certain identifications. The cooperation of other collectors and staff members of the Los Angeles Museum Channel Islands Biological Survey is also gratefully acknowledged. While the report is reasonably complete at the present time, it is vet probable that additional collecting will yield other reports in the future, at least for Anacapa Island.

<sup>&</sup>lt;sup>1</sup> Alice Eastwood, "The Islands of Southern California and a List of the Recorded Plants," Leaflets of Western Botany, 3:3, pp. 54-78. July, 1941.



PLATE 26 Santa Barbara Island from the east.



PLATE 27 Anacapa Island from west island.

Santa Barbara Island is a small island lying about 41 miles southwest of Point Vicente. The island contains approximately one square mile, and is surrounded by rugged cliffs. The central part of the Island is traversed by a central, saddle-shaped, northsouth ridge from which the surface slopes gently to broad terraces to the east and west. The island has been cultivated and burned over, so that introduced plants occupy much of the terraces and the central ridge. The island is composed largely of volcanic flows, breccia and tuffs. There is a small pleistocene deposit of sediments near the south end at an elevation of about 500 feet. There is no water on the island, and the only mammals are native mice and introduced cats and rabbits. Gulls, cormorants, and pelican nest there in large numbers, while California and stellar sea lions have several rookeries on the narrow beaches. Sea Elephants may occasionally be found there, and sea otters were once numerous but have only been infrequently and rather questionably reported in recent years. The island has no trees or large bushes but Corcopsis gigantea dominates much of the island

Anacapa Island is really a mountain ridge, with only the summit projecting above water, and this narrow ridge is divided by narrow passes into three islands, of which the western is largest and highest. The chain is about five miles long and one half mile wide. Nearly vertical cliffs line the sides so that there are but few landing places. In many places the north and south join in serrate, narrow ridges that are impossible to negotiate. Each of the islands has gently rolling mesas that are covered by grass and low shrubs. The peak on the western island rises to 930 feet. The rocks of the island are mainly intrusives and some volcanic flows, with thick beds of pliocene and pleistocene sediments on the middle island. There is water in only one cave that is accessible only from the sea. The middle island has been grazed at times and some sheep have been on the western island. The eastern island is now overrun by rabbits. There are some very thin sedimentary deposits on the eastern island and considerable water-worn gravel and boulders. The western island has dense suffrutescent growth on the steep slopes and shrub savanna on the terrace. Several groves of small trees are to be found in the northern canyons.

	TOTAL	NATIVE	Ехотіс	ENDEMIC
Total for both islands	213	145	33	35
Anacapa Island	179	130	25	24
Santa Barbara Island	80	43	21	16
Common to both islands	45	27	13	5

### LIST OF REPORTED PLANTS

Common to both islands	3	5	Dow
The arrangement and nomenclature used in the that used in Munz, A Manual of Southern California Abbreviations used in the list are as folows:  A—reported from Anacapa Island.  B—reported from Santa Barbara Island.  m—native, occurring also on the mainland.  i —introduced or exotic plants.  e—endemic to the Channel Islands and Guadalug abun.—Abundant and usually dominant.  com.—Common.  occ.—Occasional.  loc.—Only one locality known.  rare—Not found in recent years or very local.  LIST OF REPORTED PLANTS  Polypodiaceae  Pityrogramma triangularis (Kauff.) Maxon  (Gymnogramme triangularis Kaulf.)  Pellaea mucronata D. C. Eat	e list a Boa	t follo	nloaded fron
Abbreviations used in the list are as follows:			n http
A—reported from Anacapa Island.			o://me
B—reported from Santa Barbara Island.			eridia
m—native, occurring also on the mainland.			ın.all
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abun.—Abundant and usually dominant.	re 151	and.	ess.
com. —Common.			com/
occOccasional.			scas
loc. —Only one locality known.			bulle.
rare—Not found in recent years or very local.			etin/a
			ırticle
LIST OF REPORTED PLANTS			e-pdf/41/:
Polypodiaceae			3/12:
Pityrogramma triangularis (Kauff.) Maxon	A le	oc.	m <sup>5/3</sup> 1
(Gymnogramme triangularis Kaulf.)			5193
Pellaea mucronata D. C. Eat.	A = 1	oc.	m
Pellaea andromedaefolia (Kaulf.) Fee	$A \downarrow$	oc.	mg
Adiantum Jordani C. Mull	A 1	oc.	m <sup>2</sup> -3872-41-3-1
Polypodium vulgare L. var. hesperium (Maxon) Nels, & Macbr	Α 1		44
Polypodium californicum Kaulf.	$\Lambda$ I	oc.	1113-12
var. Kaulfusii D. C. Eat	A 1	oc.	me
			by (
Naiadaceae			gues
Zostera marina L	A 1	oc.	25.pdf by guest on 25 April 2024
Phyllospadix Torreyi WatsB loc.	A = 1	oc.	m <sup>25</sup>
			pri
Gramineae			024
Phalaris minor Retz B loc.			i
Stipa pulchra Hitche B occ.	A c		m
Stipa lepida Hitchc	A c		m
Muhlenbergia microsperma (DC) KunthB com.	A c	om.	m :
Polypogon monspeliensis (L.) Desf	A	occ	1
Avena fatua L			i

Melica imperfecta TrinB	occ.		m
Distichlis stricta (Torr.) Rydb.	Λ		
var. laxa (Vasey) Fawcett & West. (Distichlis spicata [L.] Greene).	А	com.	m
Lamarckia aurea (L.) MoenchB.	loc.		i
Poa scabrella (Thurb.) Benth	А	occ.	m
Festuca octofilora Walt	A		m
var, hirtella Piper	Λ		m
Festuca megalura Nutt	com. A	com.	m
Festuca dertonensis (All.)			
Aschers & Graebn.		occ.	m
Bromus carinatus Hook, & Arn		com.	m
var. Hookerianus (Thurb.) Shear. Bromus marginatus NeesB		com.	m m
Bromus maritimus (Piper) Hitchc		loc.	m
Bromus mollis L.		com.	i
(Bromus hordeaceus Auth.)	11	com.	1
Bromus rigidus RothB	loc. A	loc.	i
Bromus rubens L. B		loc.	i
Bromus madritensis L.		loc.	i
Bromus Trinii Desv	А	loc.	i
(Trisetum barbatum Steud.)			
Bromus vulgaris (Hook.) ShearB	loc.		m
Bromus laevipes Shear.		occ.	m
Bromus sterilis LB			i
Hordeum pusillum Nutt	T	occ.	m
Hordeum nodosum L.  Hordeum murinum L		occ. abun.	m i
Elymus condensatus Presl		loc.	111
Elyllus Condensatus Tresi	2.0	100.	111
Liliaceae			
Brodiaea capitata BenthB	com. A	com.	m
Zygadenus Fremontii Torr		loc.	m
/ 8			
Fagaceae			
Quercus tomentella Engelm.	А	loc.	е
guereus tomentent Engenn			
Urticaceae			
Urtica gracilis Ait.			
var. holosericea (Nutt.) Jeps	А	loc.	m
Parietaria floridana Nutt		occ.	m
Polygonaceae			
Eriogonum arborescens Greene	А	com.	e
<sup>1</sup> Eriogonum nudum Dougl.			
var. grande Jeps	A	com.	e

Called E. latifolium Sm. by Yates, and said to approach this form by Hoffman. 1932a. According to the revision of Eriogonum by Mrs. Stokes this form would be Eriogonum latifolium Sm. ssp. grande (Greene) Stokes.

This plant formerly reported as E. giganteum Wats, has such differing characteristics from the species as to warrant raising it to the varietal rank. The plant differs from the species in being lower, 4-6 dm. tall, much more compacted and with p the pubescence at the base of the plant, the lower side of the leaves, and the inflorescence much more densely white-wooly. The peduncle is first 3-branched, then usually 2-branched, with the ultimate branches very short, .2-2.5 cm. long. The inflorescence is compacted into from 3 to 9 very compacted, subcapitate clusters. The involucres are sessile. Dunkle No. 8704.

Pterostegia drymarioides F. & MB com.	A com.	m
Rumex crispus L	A occ.	i

pitate clusters. The involucres are sessile. Dunkle No. 8704.
A specie differt; humilius, 4-6 dm. alti, congestiusque; caulibus basi dense albo-lanatis; foliis infra dense albo-lanatis; inflorescentibus dense albo-lanatis, congestis in 3-9 subcapitata cyma; involucris congestibus, sessilibus.
Pterostegia drymarioides F. & M
Chenopodiaceae $\overline{\phi}$
pitate clusters. The involucres are sessile. Dunkle No. 8704.  A specie differt: humilius, 4-6 dm. alti, congestiusque; caulibus basi dense albo-lanatis; foliis infra dense albo-lanatis; inflorescentibus dense albo-lanatis, congestis in 3-9 subcapitata cyma; involucris congestibus, sessilibus.  Pterostegia drymarioides F. & M
Nyctaginaceae  Abronia maritima Nutt
Aizoaceae

				<b>D</b>
	Jutt		A rare	
Mirabilis laevis (Be	enth.) CurranB.	loc.	A occ.	m 8

#### AIZOACEAE

Mesembryanthemum chilense Molina	Α	rare	m
(M. aeguilaterale Haw.)			
Mesembryanthemum crystallinum LB. abun.	Α	occ.	i
Mesembryanthenium nodiflorium L. B. abiin.			i

Portulaceae		
Calandrinia ciliata (R. & P.) DC. var. Menziesii (Hook.) Macbr (C. caulescens H.B.K.) Calandrina maritima Nutt	A occ.	m m
Montia perfoliata (Donn.) HowellB. loc.	A occ.	m
L. C.		
Caryophyllaceae		
Spergularia macrotheca (Hornem.) Heynh. B. occ. Silene gallica L	A com.	m i
Silene laciniata Cav	A rare A occ.	i m
Silene multinervia Wats.	A occ.	m
Ranunculaceae		
Delphinum Parryi Gray	A occ.	m
(D. Parryi Ğray var. maritimum Dav.)		
Berberidaceae		
Berberis pinnata Lag	A rare	m
Berberts plinata Lag	A laic	111
Papaveraceae		
Platystemon californicus Benth	A occ.	m
<sup>2</sup> var. ciliatus DunkleB loc.		e
(P. aculeolatus Greene) (P. setosus Greene)		
Eschscholtzia elegans Greene	A occ.	е
Papaver heterophyllum (Benth.) GreeneB rare	A rare	m
Construence		
GRUCIFERAE	1	
*Caulanthus lasiophyllus (H. & A.) Payson (Thelypodium lasiophyllum [H. & A.] Greene)	A occ.	m
var. inalienum Rob	A rare	m
var. ridgidum Rob Lepidium lasiocarpum Nutt	A rare A occ.	m
Lepidium nitidum NuttB occ.	A com.	m
Lepidium pubescens Desv.	A occ.	i
Erysimum asperum (Nutt.) DC Brassica nigra (L) Koch	A occ. B rare	mi
Diassica nigita (L) Koch	D Tale	ı

<sup>&</sup>lt;sup>1</sup> Munz reports that S. simulans is being given subspecific rank in a study now being made of the genus by Hitchcock and Maguire.

<sup>&</sup>lt;sup>2</sup> The writer has found only one locality, with one rather variable variety, but Greene collected before the fire of 1918, when another type may have been present.

 $<sup>^3\,\</sup>mathrm{Miss}$  Eastwood's list lists the species and Hoffman's list names the two varieties, not subsequently reported.

## Crassulaceae

Echeveria Greeni (Rose) Berger	A com.	e
Echeveria albida (Rose) Berger		e n Downloa
Saxifragaceae		aded
Heuchera maxima GreeneRibes malvaceum Sm	A occ. A rare	Downloaded from http://
Rosaceae		meridia
Rubus vitifolius C. & S	A occ.	m a
Photinia arbutifolia (Ait.) Lindl	A loc.	m g
Prunus Lyonii (Eastw.) Sarg	A loc.	//meridian.allenpress.com/scasbulletin/article-pdf/4/13/125/3161935/i0038-mmeem:i:i:mmeem:i:i:mmeem:i:i:mmeem:i:i:mmeem:i:i:i:mmeem:i:i:i:mmeem:i:i:i:mmeem:i:i:i:mmeem:i:i:i:mmeem:i:i:i:i
Leguminosae		ulletin
Lupinus truncatus Nutt	A occ.	m artic
Lupinus succulentus Dougl	A occ.	m <del>ğ</del>
Lupinus bicolor Lindlvar. umbellatus C. P. Smith	A occ.	11/41
Lupinus albifrons Benth	A occ.	m 3/12
Melilotus indica All.	A rare	i 5/31
Medicago hispida GaertnB com.	A com.	i 6193
Medicago sativa L.	A rare	i 5/i0
Trifolium tridentatum Lindl		m &
var. aciculare McDer	A occ. A com.	m m
Trifolium gracilentum T. & G	A com.	e 44
Trifolium microdon H. & A. B. com.		m 25
Lotus strigosus (Nutt.) Greene	A occ.	ma
<sup>1</sup> Lotus argophyllus (Gray) Greene		f by guest on 25 / e e
var. ornithopus (Greene) OttleyB occ.		e est
Lotus scoparius (Nutt.) Ottley	1 1	on 2
var. Veatchii (Greene) Ottley var. dendroideus (Greene) Ottley	A loc. A com.	e 15 e 20
Lotus subpinnatus Lag	A occ.	
Astragalus Traskiae Eastw		m 2024
Astragalus Douglasii Gray	A occ.	m
Astragalus leucopsis (T. & G.) Torr	A occ.	m
Astragalus Nevinii Gray	A ?	е
Astragalus didymocarpus H. & A	A occ.	m

<sup>&</sup>lt;sup>1</sup> The form of L. argophyllus ornithopus on Santa Barbara Island has much shorter peduncles than the typical form on Santa Catalina Island. Peduncles of Catalina form 2-4 cm., Santa Barbara form .5-1.5 cm.

Astragalus miguelensis Greene Vicia exigua Nutt  Lathyrus strictus Nutt  (L. laetiflorus Greene)	А	occ. occ.	e m m
Geraniaceae  Erodium botrys Bertol B rare  Erodium moschatum (L.) L'Her B com.  Erodium cicutarium (L.) L'Her B abun.	А	com.	i i i
Anacardiaceae Rhus integrifolia (Nutt.) B. & W Rhus diversifolia T. & G		occ. loc.	m m
Malvaceae  Malva parviflora L	Α	loc.	i e
Frankenia grandiflora C. & S.	Α	com.	m
CACTACEAE Opuntia prolifera Engelm	A	occ. abun.	m m
Onagraceae Zauschneria cana Greene	A	occ.	m m
Umbelliferae Sanicula arguta Greene Berula erecta (Huds.) Gov Daucus pusillus Michx.	А	occ. occ. occ.	m m m
Primulaceae  Dodecatheon Clevelandii Greene  Dodecatheon Hendersonii Gray		com.	m m
Convolvulaceae Convolvulus occidentalis Gray var. macrostegius (House) MunzB abun.	А	com.	e
Polemoniaceae  Gilia gilioides (Benth.) Greene var. glutinosa (Benth.) Jeps			m

<sup>&</sup>lt;sup>1</sup> Scarce, depauperate, and the identification is uncertain.

Gilia millefoliata F. & M.	Α	com.	m
Gilia Nevinii Gray	A	occ.	e
Gilia multicaulis Benth	Α	occ.	m
TY			
Hydrophyllaceae			
Nemophila racemosa Nutt			m
Ellisia chrysanthemifolia Benth	Α	occ.	m _
<sup>1</sup> Phacelia floribunda Greene			m Down
Phacelia distans Benth.	Δ	com.	m g
			med
Phacelia viscida (Benth.) Torr		occ.	
Phacelia hispida GrayB occ.	А	com.	m m m m m m m m m e
			팙
Boraginaceae			p://
			ner
Heliotropium Curassavicum L.			idia
var. ocelatum (Heller) Johnston	Α	com.	m a
Amsinckia intermedia F. & M. B abun.	A	com.	m
Cryptantha Clevelandii Greene			pre
var. hispidissima (Greene) Johnston B occ.	Α	occ.	111 .6
	2 <b>k</b>	occ.	111 9
Cryptantha muricata (H. & A.)			/sc
Nels. & MacBr.			asb
var. Jonesii (Gray) Johnston	А	occ.	m =
Cryptantha maritima Greene			m₹
Cryptantha intermedia (Gray) GreeneB occ.			m
Cryptantha Traskae Johnston			e P
Plagiobothrys californicus (Gray) Greene			pdf
	Λ		
var. gracillis Johnston		com.	m 🗟
var. fulvescens Johnston	А	com.	m g
in the second se			316
Labiatae			193
			5/10
Stachys bullata Benth.	А	occ.	m g
(Stachys acuminata Greene)			. 32
(Stachys californica Benth.)			372-
<sup>2</sup> Salvia mellifera Greene	Α	com.	m <sup>4</sup>
var. Jonesii Munz		com.	m -
Salvia Brandegei Munz		occ.	25.
Salvia Diandegei Muliz	7	occ.	ट ठू
			by (
Solanaceae			125/3161935/i0038-3872-41-3-125.pdf by guest on 25 April 2024
Lycium californicum Nutt			st o
Lycium cantornicum trutt			n 2
			5 <u>A</u>
Scrophulariaceae			or i
Linaria canadensis (L.) Dum-Cours.			202
var. texana (Scheele) Pennell	Α	occ.	m
Scrophularia californica Cham.	, L	Jec.	***
	Λ		
var. catalinae Jeps		occ.	е
Pentstemon cordifolius Benth	A	rare	m

 $<sup>^{1}</sup>$  Only a few of the calyx lobes are pinnate, and in habit resembles  $P.\ distans.$ 

<sup>&</sup>lt;sup>2</sup> While the three forms of Salvia can easily be distinguished in the leaf characteristics they are closely related and should probably all be included as varieties of the same species.

<sup>1</sup> Mimulus Flemingii Munz	A com. e
Castilleja hololeuca Greene	A abun. e
Castilleja Douglasii Benth	A com. m
(C. parviflora Bong, var, californica	
Zeile)	
(C. californica Abrams)	

CASTILLEJA ANACAPENSIS SPEC. nov.

A occ. e

This interesting plant was taken in full bloom on both the middle and western islands of the Anacapa group during the last week of August. Its late habit of bloom, its broad leaves, its suffrutescent base, and minor differences in the flower mark it as being very distinct from its nearest relative C. affinis H. & A.

It is a suffrutescent herb, with slender stems branching from a woody base, erect or decumbent, 1.5-3 dm. high, sparsely glandular-villous; leaves crowded, broadly oblong to oblong-lanceolate, 1.5-4 cm. long, three-lobed; bracts three-lobed, red, 1.5-2 cm. long; calyx deeply divided below, 1.5-2 cm, long, greenish red, corolla yellowish-green and red, 2.5-3.5 cm. long, galea sparsely puberulent, lower lip exserted. Dunkle, Nos. 7639, Aug. 20, 1940; and 7661, Aug. 26, 1940.

Herba suffrutescens; caulibus ramosis ex caudice ligneo, erectis vel decumbentibus, gracilibus, 1.5-3 dm, altis, leviter glandulose-villosis; foliis confertis, latis vel oblongo-lanceolatis, trilobis; bracteis trilobis, rubris, 1.5-2 cm, longis; calyce partito inferiore, 1.5-2 cm, longo, githaginae; corolla 2.5-3.5 cm, longa, flavovirente rubraque, galea leviter puberula, labro inferiore exserte.

## PLANTAGINACEAE

Plantago insularis Eastw. B occ.	A com.	$\mathbf{m}$
Plantago Hookerina F. & M.		
var. californica (Greene) Poe	A occ.	m
(P. speciosa Morris)		
Plantago maritima L	4	111

### Rubiaceae

Galium aparine L. B com.	A com.	i
Galium angustifolium Nutt.		
var. foliosum Hilend & Howell	A com.	e

#### CUCURBITACEAE

Echinocystis	fabaceae	Naud	A occ.	111
Echinocystis	macrocar	rpa GreeneB com		111

<sup>&</sup>lt;sup>1</sup> Wide variations in flower color and form are present.

## Compositae

Tribe <i>Eupatoricae</i> Brickellia californica (T. & G	А	occ.	m
Tribe Astoreae			
Grindelia rubricaulis DC.			D
var. latifolia (Kellogg) Stevermark	Α	abun.	m <sup>§</sup>
var. platyphylla (Greene)			oade
Steyermark	Α	com.	m a
Aplopappus canus (Gray) Blake	Α	abun.	e ă
(Hazardia cana [Gray] Greene)			tp://r
(H. Traskiae Eastw.)			nerid
(H. detonsa Greene) (H. serrata Greene)			ian.a
Aplopappus venetus (H.B.K.) Blake			allenp
var. vernonioides (Nutt.) Munz	Α	com.	meg
(Isocoma vernonioides Nutt.)			m e e m e e m e e m e e m e e m e e m e e m e e m e e m e e m e e m e
Corethrogyne filaginifolia (H, & A.) Nutt.			s/s
var. latifolia Hall	A	com.	m 🖺
var. robusta Greene		abun.	e etin/a
Erigeron sanctarum Wats	А	occ.	m
Erigeron glaucus Ker	А	com.	casbulletin/article-pdf/4:
Erigeron foliosus Nutt.			
var. stenophylla (Kellogg) Gray		occ.	m 3/125
Baccharis Douglasii DC		occ.	m 3
Baccharis viminea DC	А	occ.	m 1938
Baccharis pilularis DC.	Λ	2000	/i003
var. consanguinea (DC.) C. B. Wolf	Λ	com.	111 88-38
			372-4
Tribe Inulcae			4
Gnaphalium californicum DC	А	occ.	m 125
(G. decurrens Ives var. californicum Gray)			odf b
Gnaphalium bicolor Bioletti	Δ	occ.	/3/125/3161935/10038-387241-3-125.pdf by guest on 25 April 2024
Gnaphalium microcephalum Nutt		occ.	m se o
Gnaphalium chilense Spreng		occ.	11 25
Ghapharidii Cincisc Spreng	1 <b>x</b>	occ.	III April
77. 11. 4. 1.			2024
Tribe Ambrosieae			-
Franseria bipinnatifida Nutt	А	occ.	m
Tribe Heliantheae			
Encelia californica Nutt.		com.	m
Coreopsis gigantea (Kell.) HallB abun.	А	abun.	m

Tribe Madicae
Hemizonia clementina Brandg
Hemizonia fasciculata (DC.) T. & G.)
¹ var. ramosissma (Benth) GrayB com. m
Tribe Helenieae
Perityle Emoryi Torr
(P. Greenei Rose)
Baeria hirsutula Greene
Baeria chrysostoma F. & M. var. gracilis Piper
Eriophyllum Nevinii Gray
Eriophyllum confertiflorum Gray A com. m
Eriophyllum staechadifolium Lag.
var. depressum Greene
Amblyopappus pusillus H. & AB. abun. A abun. m
Tribe Anthemidae
Achillea millefolium L
<sup>2</sup> var. lanulosa (Nutt.) PiperB. abun. A com. m
²var. lanulosa (Nutt.) PiperB. abun. A com. m Artemisia californica Less A abun. m
<sup>2</sup> var. lanulosa (Nutt.) PiperB. abun. A com. m
²var. lanulosa (Nutt.) PiperB. abun. A com. m Artemisia californica Less A abun. m
²var. lanulosa (Nutt.) PiperB. abun. A com. m Artemisia californica Less A abun. m
²var, lanulosa (Nutt.) Piper
²var. lanulosa (Nutt.) Piper
²var, lanulosa (Nutt.) Piper

<sup>&</sup>lt;sup>1</sup> Not typical and its varietal status is yet uncertain.

<sup>&</sup>lt;sup>2</sup> Closely approaches A. M. var. maritima Jepson in respect to its short internodes and dense leafiness.